

with the stored source IP address.

BRIEF DESCRIPTION OF THE DRAWINGS

15 【0012】 FIG. 1 is a schematic view showing a structure example of a LAN system according to an embodiment of the present invention;

FIG. 2 is a schematic view showing a structure example of an intelligent interconnecting device which is used in the LAN system shown in FIG. 1;

10 FIG. 3 is a subroutine flow chart showing a processing procedure in a first example of unauthorized access avoiding processing executed by the intelligent interconnecting device shown in FIG. 2; and

15 FIG. 4 is a subroutine flow chart showing a processing procedure in a second example of unauthorized access avoiding processing executed by the intelligent interconnecting device shown in FIG. 2.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

20 【0013】 Embodiments of the present invention is explained in detail below with reference to the attached drawings.

25 It is to be understood that members, arrangements, and so on which are explained below are not restrictive of the present invention and

various improvements and modifications may be made within the scope and spirit of the present invention.

First, the structure of a LAN system to which
5 an intelligent interconnecting device according to an embodiment of the present invention is applied to configure the LAN system is explained with reference to FIG. 1.

10 **【0014】** What is called personal computers 2 as a plurality of terminals and a LAN trunk line 3 are connected to an intelligent interconnecting device 1 in this LAN system. To the LAN trunk line 3, at least a managing computer 4 is connected and furthermore, a different network 5 may also be
15 connected. The managing computer 4, which is connected directly to the LAN trunk line 3 in this structure, may alternatively be connected to the LAN trunk line 3 via the different network 5.

Incidentally, the managing computer 4 may also
20 work as a server or alternatively, the server may be provided separately in addition to the managing computer 4.

The intelligent interconnecting device 1 is composed of operation and function which are
25 controllable from outside as well as packet

interconnecting capability.

10015] FIG. 2 shows a structure example of the intelligent interconnecting device 1. The structure thereof and so forth are explained below with reference to FIG. 2.

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The intelligent interconnecting device 1 comprises a central controlling section 6, a LAN trunk line interfacing section (shown as 'B-I/F' in FIG. 2) 7, a port interfacing section (shown as 'P-I/F' in FIG. 2) 8, and a storage section 9, which are connected with one another via a common internal bus 10. This structure is not basically different from that of a conventional apparatus except that the central controlling section 6 performs unauthorized access avoiding processing, which is described later.

The central controlling section 6 performs operation control of the whole intelligent interconnecting device 1 in this structure and particularly, in the embodiment of the present invention, executes the later described unauthorized access avoiding processing.

10016] The LAN trunk line interfacing section 7 interfaces the intelligent interconnecting device 1 with the LAN trunk line 3 and the port interfacing